

	A	B	C	D	E
1		PREDICT-2 quarterly surveillance update			
2		Updated through Sept 2017			
3		Source: EIDITH data, surveillance team, behavior team			
4					
5		Note: The PREDICT surveillance protocol focuses on: (1) priority animals (including bats, rodent, non-human primates, and sometimes livestock) a potential for zoonotic spillover; (2) and five viral families (influenzas, coronaviruses, filoviruses, flaviviruses, and paramyxoviruses) which contain m			
6		general, sample and data collection are planned for a minimum of 2 years for wildlife and 1 year for humans.			
		PREDICT-2 routinely collects multiple sample types from target species; however, due to budget limitations, PREDICT-2 may not be able to test all			
7	Country	# Site/Events Characterized to date	Site Characterization-Risk Interfaces Characterized	Actual (or estimated) start date for surveillance for animals (month, year)	Actual (or estimated) start date for surveillance for humans (month, year)
8	China	30/149	animal production; crop production; dwellings and temporary settlements; human hospital; natural areas	5/19/2016	10/20/2016; EHA began sampling 9/27/2017
9	Nepal	9/44	animal production; crop production; dwellings and temporary settlements; human hospital; market and value chain; natural areas; wildlife restaurant	7/11/2015	9/9/2016
10	India	2/0		Estimated start date Oct 2017	UCD IRB approved 10/2/2017, estimated start date Oct 2017
11	Mongolia	24/35	natural areas	5/26/2016	n/a
12	Bangladesh	163/252	animal production; crop production; dwellings and temporary settlements; market and value chain; natural areas; outbreak investigation; zoos and sanctuaries	6/26/2015	UCD IRB approval pending
13	Myanmar	15/49	animal production; crop production; dwellings and temporary settlements; natural areas; zoos and sanctuaries	5/27/2016	7/15/2017
14	Malaysia, Peninsular	22/31	dwellings and temporary settlements; zoos and sanctuaries	3/12/2016	
15	Malaysia, Sabah	44/96	temporary settlements; natural areas; wildlife restaurant; zoos and sanctuaries	10/17/2014	local IRB pending

activities (Sept 2017)

	F	G	H	I	J
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5	nd humans at animal-human interfaces where there is high- members that have caused epidemics and pandemics. In				
6	individuals sampled or all sample types from each individual.				
7	# Wild Animals Sampled to date	Wildlife Taxa Sampled (n)	# Domestic Animals Sampled to date	Domestic Species Sampled (n)	Plan for triangulation with FAO
8	1550	rodents/shrews(277); bats(1273)	not planned	not planned	FAO does not have resources to support at this time
9	1205	rodents/shrews(260); birds(154); non- human primates(693); bats(98)	sampling supported by FAO	sampling at one concurrent site supported by FAO	FAO supporting livestock
10	subaward approved recently	planning phase	not planned	not planned	not planned
11	1870	birds(1870)	not planned	not planned	not planned
12	8498	rodents/shrews(605); birds(632); non- human primates(6226); bats(1035)	716	poultry/other fowl(560); camels(103); goats/sheep(44); dogs(3); cattle/buffalo(6)	PREDICT sampling livestock within budget; FAO has agreed to do animals at one site (border of India/Bangladesh)
13	1590	rodents/shrews(210); carnivores(1); non-human primates(291); bats(1088)	69 (sampling supported by FAO)	poultry/other fowl(52); goats/sheep(9); swine(8)	FAO planning to support livestock
14	404	rodents/shrews(37); ungulates(4); carnivores(1); non-human primates(157); bats(205)	303	poultry/other fowl(145); goats/sheep(11); dogs(147)	PREDICT sampling livestock within budget
15	939	rodents/shrews(245); pangolins(41); ungulates(2); carnivores(40); non- human primates(62); bats(549)	not planned	not planned	not planned

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7	# Human Questionnaires to date	# Humans Sampled to date	Human Questionnaire Risk Characterized (n)	# Ethnographic Interviews to date	# Focus Groups to date
8	218	218	construction(4); health professional(1); human hospital or clinic(218); migrant laborer(3); other(210)	132	5
9	690	637	animal production or abattoir(152); construction(48); crop production(255); health professional(2); Human Hospital or Clinic(24); hunter(3); market & value chain(17); migrant laborer(3); other(390); protected area worker(1); Temporary Settlement(315)	40	3
10	UCD IRB approved 10/2/2017, estimated start date Oct 2017	10/2/2017, estimated start date Oct 2017	UCD IRB approved 10/2/2017, estimated start date Oct 2017	not planned	not planned
11	not planned	not planned	not planned	not planned	not planned
12	UCD IRB approval pending	UCD IRB approval pending	UCD IRB approval pending	73	3
13	209	209	animal production or abattoir(61); construction(3); crop production(39); health professional(1); hunter(3); market & value chain(6); migrant laborer(4); other(66); protected area worker(14); Temporary Settlement(10); zoos & sanctuaries(37)	not planned	not planned
14	data entry pending	data entry pending (estimated 370 individuals)		not planned	not planned
15	local IRB pending	local IRB pending	hospital based surveillance planned	local IRB pending	local IRB pending

activities (Sept 2017)

	P	Q	R	S	T	U
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7	# Focus Group Participants to date	# Wild Animals Tested to date	# Domestic Animals Tested to date	# Humans Tested to date	# individual animals/people with testing results approved for release by host	Notes
8	40	495	0	218	495 (animals)	
9	32	666	0	142	666 (animals)/142 (humans)	
10	not planned	subaward approved recently	subaward approved recently	subaward approved recently		
11	not planned	1202	0	0		
12	31	654	258	0		
13	not planned	105	not planned	0		
14	not planned	51	164	data entry ongoing (171)		
15	local IRB pending	530	not planned	0		

activities (Sept 2017)

	A	B	C	D	E
16	Thailand	26/72	crop production; dwellings and temporary settlements; extractive industry; human hospital; market and value chain; natural areas; zoos and sanctuaries	10/10/2015	4/4/2017
17	Cambodia	3/12	animal production; crop production; dwellings and temporary settlements; extractive industry; market and value chain	8/27/2015	5/12/2016
18	Lao PDR	4/16	crop production; dwellings and temporary settlements; market and value chain	5/11/2016	7/1/2017
19	Vietnam	41/54	animal production; dwellings and temporary settlements; market and value chain; natural areas; outbreak investigation; wildlife restaurant; zoos and sanctuaries	3/30/2015	7/10/2017
20	Indonesia	12/17	market and value chain; natural areas	3/2/2016	UCD IRB approved 9/27/17, estimated start date Oct 2017
21	Egypt	12/32	animal production; crop production; market and value chain; natural areas	8/22/2016	10/9/2016
22	Jordan	14/32	animal production; crop production; market and value chain; natural areas	7/18/2016	7/25/2017
23	Ethiopia	4/10	animal production; crop production; dwellings and temporary settlements; market and value chain; natural areas	7/16/2016	Estimated start date by Nov 2017 pending IRB approval
24	Kenya	18/26	animal production; crop production; dwellings and temporary settlements; market and value chain; natural areas	7/12/2016	9/1/2017
25	Tanzania	17/21	animal production; crop production; extractive industry; human hospital; natural areas	3/11/2016	11/24/2016

activities (Sept 2017)

	F	G	H	I	J
16	1369	rodents/shrews(257); non-human primates(159); bats(953)	sampling supported by FAO	sampling supported by FAO	FAO supporting livestock
17	3360	rodents/shrews(667); birds(5); bats(2688)	1700 (sampling supported by FAO)	poultry/other fowl(1024); goats/sheep(25); dogs(76); cats(11); horses(5); cattle/buffalo(380); swine(179)	FAO supporting livestock
18	503	rodents/shrews(434); bats(69)	350 (sampling supported by FAO)	poultry/other fowl(179); cattle/buffalo(84); swine(87)	FAO supporting livestock
19	912	rodents/shrews(305); pangolins(176); ungulates(3); birds(3); carnivores(7); non-human primates(18); bats(400)	185 (sampling supported by FAO)	swine(185)	FAO supporting livestock
20	1061	rodents/shrews(305); pangolins(176); ungulates(3); birds(3); carnivores(7); non-human primates(18); bats(400)	784 (sampling supported by FAO)	cattle, pigs, goats, and horses (concurrently within a month)	FAO planning to support livestock
21	545	bats(545)	sampling supported by FAO	sampling supported by FAO	FAO supporting livestock
22	410	bats(410)	sampling supported by FAO	sampling supported by FAO	FAO supporting livestock
23	352	non-human primates(212); bats(140)	sampling initiated by FAO	sampling initiated by FAO	PREDICT will no longer be sampling or testing livestock
24	471	rodents/shrews(107); non-human primates(196); bats(168)	427	camels(427)	PREDICT will no longer be sampling or testing livestock
25	632	rodents/shrews(297); non-human primates(58); bats(277)	sampling initiated by FAO	sampling initiated by FAO	PREDICT will no longer be sampling or testing livestock

	K	L	M	N	O
16	378	378	animal production or abattoir(27); construction(7); crop production(53); extractive industry worker(30); Human Hospital or Clinic(35); other(279); Temporary Settlement(1); zoos & sanctuaries(13)	not planned	not planned
17	407	287	animal production or abattoir(124); construction(13); crop production(187); hunter(9); market & value chain(17); migrant laborer(2); other(236); protected area worker(1); temporary settlement(4); wildlife restaurant(2); zoos & sanctuaries(1)	not planned	not planned
18	30	30	production(28); Human Hospital or Clinic(1); hunter(2); migrant laborer(2); other(2)	2	0
19	129	129	animal production or abattoir(17); construction(6); crop production(71); extractive industry worker(7); health professional(7); hunter(7); other(53); Temporary Settlement(10)	5	0
20	UCD IRB approved 9/27/17, estimated start date Oct 2017	UCD IRB approved 9/27/17, estimated start date Oct 2017	UCD IRB approved 9/27/17, estimated start date Oct 2017	47	2
21	676	675	animal production or abattoir(523); crop production(14); forager/gatherer(1); health professional(3); hunter(3); market & value chain(130); other(49)	not planned	not planned
22	77	77	animal production or abattoir(12); market & value chain(40); other(27)	not planned	not planned
23	Estimated start date by Nov 2017 pending IRB approval	Estimated start date by Nov 2017 pending IRB approval	Estimated start date by Nov 2017 pending IRB approval	not planned	not planned
24	data entry pending	data entry pending	data entry ongoing	not planned	not planned
25	176	89	animal production or abattoir(70); construction(3); crop production(153); extractive industry worker(5); forager/gatherer(10); health professional(3); Human Hospital or Clinic(83); hunter(5); market & value chain(8); other(19); Temporary Settlement(8)	33	7

activities (Sept 2017)

	P	Q	R	S	T	U
16	not planned	1083	0	27		
17	not planned	512	0	0		
18	0	378	0	subaward for human testing in development		
19	0	114	185 (pilot samples tested with FAO)	0		
20	29	411	0	0		
21	not planned	data entry ongoing (estimated n=250)	0	300		
22	not planned	250	0	0		
23	not planned	19	0	0		
24	not planned	69	100	0		
25	63	146	0	0		

activities (Sept 2017)

	A	B	C	D	E
26	Uganda	19/39	animal production; crop production; dwellings and temporary settlements; extractive industry; human hospital; market and value chain; natural areas; zoos and sanctuaries	1/22/2015	1/9/2017
27	Rwanda	23/42	crop production; dwellings and temporary settlements; human hospital; natural areas	8/28/2015	12/15/2016
28	DR Congo	66/165	crop production; dwellings and temporary settlements; extractive industry; human hospital; market and value chain; natural areas; outbreak investigation; wildlife restaurant; zoos and sanctuaries	1/27/2015	12/15/2016
29	Republic of Congo	17/23	animal production; crop production; dwellings and temporary settlements; extractive industry; market and value chain; wildlife restaurant	8/31/2015	Awaiting transfer of approved IRB from MB to EHA; likely conducting human qualitative work only
30	Cameroon	24/57	crop production; dwellings and temporary settlements; extractive industry; market and value chain; natural areas; outbreak investigation; wildlife restaurant; zoos and sanctuaries	10/3/2014	9/28/2017
31	Ghana	3/9	animal production; crop production; dwellings and temporary settlements; market and value chain; natural areas	10/3/2016	1 of 2 IRBs approved, estimated start date by Nov 2017
32	Cote d'Ivoire	2/2	dwellings and temporary settlements; natural areas; outbreak investigation	11/11/2016	9/29/2017
33	Senegal	2/7	animal production; crop production; human hospital	9/1/2017	6/1/2017
34	Guinea	45/46	animal production; crop production; market and value chain; natural areas; outbreak investigation	11/28/2016	local IRB (EHP behavioral work only) approved

	F	G	H	I	J
26	778	rodents/shrews(106); non-human primates(121); bats(551)	80	camels(80)	not planned
27	719	rodents/shrews(105); non-human primates(114); bats(500)	not planned	not planned	not planned
28	770	rodents/shrews(264); non-human primates(163); bats(343)	24	poultry/other fowl(7); goats/sheep(16); swine(1)	not planned
29	346	rodents/shrews(145); carnivores(1); bats(200)	not planned	not planned	not planned
30	2732	rodents/shrews(1499); pangolins(39); ungulates(21); carnivores(38); non-human primates(438); bats(697)	not planned	not planned	not planned
31	868	rodents/shrews(93); non-human primates(179); bats(596)	not planned	not planned	not planned
32	347	rodents/shrews(65); birds(12); bats(270)	not planned	not planned	not planned
33	data entry pending	data entry pending	not planned	not planned	not planned
34	500	rodents/shrews(156); bats(344)	194	goats/sheep(185); dogs(1); swine(8)	PREDICT will no longer be sampling or testing livestock

	K	L	M	N	O
26	225	210	animal production or abattoir(140); construction(2); crop production(190); human hospital or clinic(210); other(26); protected area worker(16)	46	2
27	164	164	construction(9); crop production(67); health professional(10); Human Hospital or Clinic(164); migrant laborer(1); other(77); zoos & sanctuaries(1)	not planned	not planned
28	232	203	animal production or abattoir(4); crop production(6); extractive industry worker(2); health professional(5); human hospital or clinic(207); hunter(3); market & value chain(25); migrant laborer(12); other(186); temporary settlement(5); wildlife restaurant(1); zoos & sanctuaries(1)	166	10
29	18	0	animal production or abattoir(1); construction(1); crop production(3); health professional(1); hunter(1); market & value chain(14); other(2); wildlife restaurant(2)	54	0
30	started Sept 2017	started Sept 2017		112	8
31	1 Local IRB approved, 2 Local IRB (specific to clinics) approvals pending; subcontracts with clinics/hospital (2) in development	1 Local IRB approved, 2 Local IRB (specific to clinics) approvals pending; subcontracts with clinics/hospital (2) in development		not planned	not planned
32	1/2/1900	1/2/1900	1/0/1900	14	9
33	60	60	animal production or abattoir(1); crop production(3); human hospital or clinic(51); other(56)	not planned	not planned
34	local IRB (EHP behavioral work only) approved	not planned		not planned	not planned

	P	Q	R	S	T	U
26	20	68	80	subaward & MOU finalized recently, samples have been submitted		
27	not planned	92	0	0		
28	85	549	24	60	235 (animals)	
29	0	338	0	0		
30	89	2445	0	0	1667 (animals)	
31	not planned	0	0	0		
32	72	0	0	0		
33	not planned	training completed		training completed		
34	not planned	subaward for testing approved recently	0	not planned		

	A	B	C	D	E
35	Liberia	26/32	crop production; dwellings and temporary settlements; extractive industry; natural areas	7/18/2016	local IRB (EHP behavioral work only) pending
36	Sierra Leone	56/82	animal production; crop production; dwellings and temporary settlements; market and value chain; natural areas; outbreak investigation	3/5/2016	IRB (EHP behavioral work only) approved
37					

	F	G	H	I	J
35	1867	bats(1867)	planning phase	not planned	PREDICT will no longer be sampling or testing livestock
36	2281	rodents/shrews(314); non-human primates(10); bats(1957)	2173	goats/sheep(853); dogs(315); cats(5); swine(1000)	PREDICT will no longer be sampling or testing livestock
37					

	K	L	M	N	O
35	local IRB (EHP behavioral work only) pending				not planned
36	local IRB (EHP behavioral work only) approved		not planned		
37					

	P	Q	R	S	T	U
35	local IRB pending	75	0	0		
36	85	290	247	not planned		
37	In most cases, testing has been initiated, but data has not been entered yet.					

	A	B	C	D	E	F
1		Country	Wildlife sampling	Human sampling	P2 livestock sampling	FAO supported livestock activities
2	1	China	Yes	Yes	not planned	not planned
3	2	Nepal	Yes	Yes	not planned	Yes
4	3	India	pending (estimated Oct 2017 start)	pending (estimated Oct 2017 start)	not planned	not planned
5	4	Mongolia	Yes	not planned	not planned	not planned
6	5	Bangladesh	Yes	pending (estimated Oct 2017 start)	Yes	Yes
7	6	Myanmar	Yes	Yes	not planned	Yes
8	7	Malaysia, Peninsular	Yes	Yes	Yes	not planned
9	8	Malaysia, Sabah	Yes	Yes	not planned	not planned
10	9	Thailand	Yes	Yes	not planned	Yes
11	10	Cambodia	Yes	Yes	not planned	Yes
12	11	Lao PDR	Yes	Yes	not planned	Yes
13	12	Vietnam	Yes	Yes	not planned	Yes
14	13	Indonesia	Yes	pending (estimated Oct 2017 start)	not planned	Yes
15	14	Egypt	Yes	Yes	not planned	Yes
16	15	Jordan	Yes	Yes	not planned	Yes
17	16	Ethiopia	Yes	pending (estimated Nov 2017 start)	not planned	not planned
18	17	Kenya	Yes	Yes	not planned	not planned
19	18	Tanzania	Yes	Yes	not planned	not planned
20	19	Uganda	Yes	Yes	not planned	not planned
21	20	Rwanda	Yes	Yes	not planned	not planned
22	21	Dem. Republic of Congo	Yes	Yes	not planned	not planned
23	22	Republic of Congo	Yes	TBD	not planned	not planned
24	23	Cameroon	Yes	Yes	not planned	not planned
25	24	Ghana	Yes	pending (estimated Nov 2017 start)	not planned	not planned
26	25	Cote d'Ivoire	Yes	Yes	not planned	not planned
27	26	Senegal	Yes	Yes	not planned	not planned
28	27	Guinea	Yes	not planned	not planned	not planned
29	28	Liberia	Yes	not planned	not planned	not planned
30	29	Sierra Leone	Yes	not planned	not planned	not planned